



For Health. For Life.



Origin and the Environment: **Our Position**

Our goal is to minimise the impact of
company activities and those of our
customers on the environment...

Origin is committed to the principle
of 'Sustainability by Design'

Who We Are

Origin serves the healthcare and lifestyle industries with over 60 years' experience across three flagship brands – [Origin](#), [Lifestyle Packaging](#), and [DiD](#).

Our complete offering includes design and product development, regulatory approval, testing and production of manufactured packaging and components, and managed supply.

This means we face sustainability challenges at each turn, in the research, development, optimisation, design and manufacturing of new products, and along their global supply chain journeys to reach the end user.

We do not shy away from these challenges and sustainability is central to our decision-making. We are committed to doing the right thing – not appearing to do the right thing.



Striving towards a sustainable future

Origin strongly believes its work is never 'done' – whether in our existing products and processes or future developments.

We are committed to driving innovation in packaging design and managed supply that reduces environmental impact without compromising on product quality or integrity.

We will continue to take a holistic approach to sustainability, firm in our belief that a considered policy – focusing on designing eco-friendly principles into our processes and prioritising long-term sustainability over short-term wins – will reap the greatest rewards for our people, customers and the environment.



Our Mission

Origin strongly advocates a holistic approach to sustainability and a thoroughly considered policy.



This means we are critical of every decision we make, from our materials and products to machinery and manufacturing processes, managed supply and, of course, our people.

We hold ourselves accountable for the environmental impact of activities, including:

Our materials

Designing recyclability into our products and using glass, plastic, cardboard and paper to meet both patient safety and sustainability requirements. We never compromise either of these principles.

Optimisation

In addition to our focus on material selection, Origin routinely critique packaging design to ensure shape, weight and secondary packaging is optimised, whilst preserving the critical functionality intended.

Industry certification and compliance

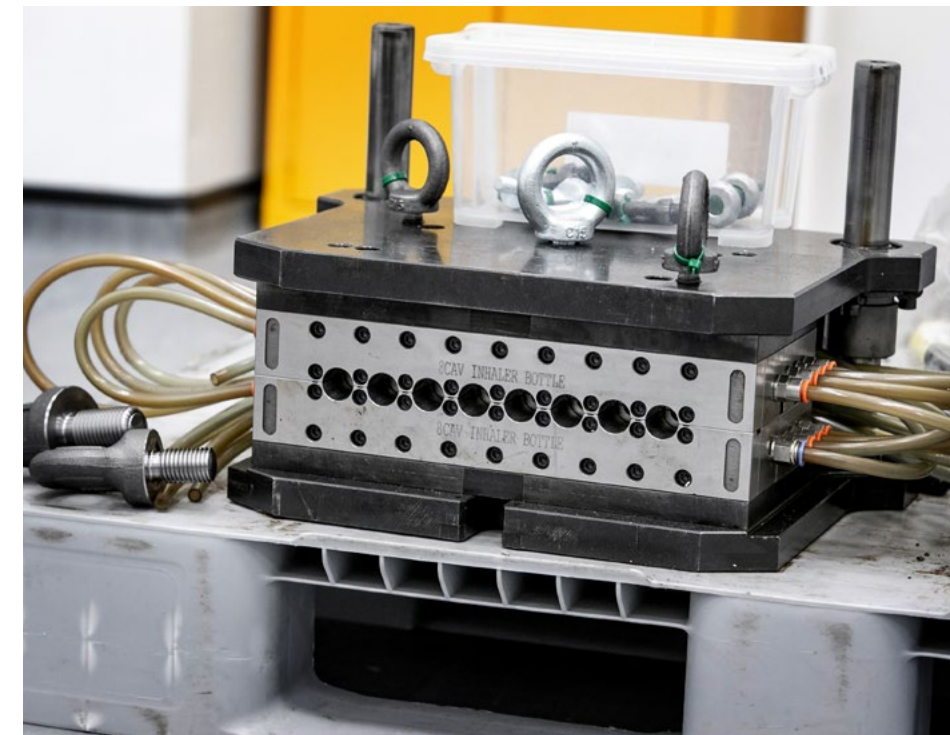
All Origin practices are pursuant to ISO 14001.

Reducing emissions

In onshoring efforts and managed supply activities.

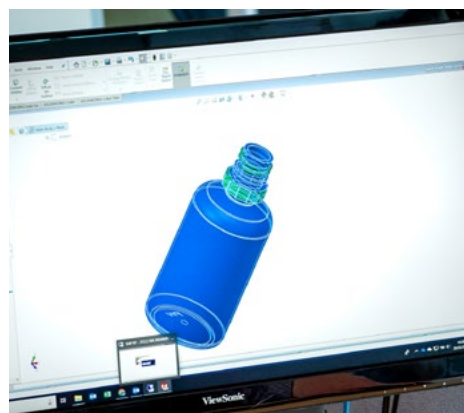
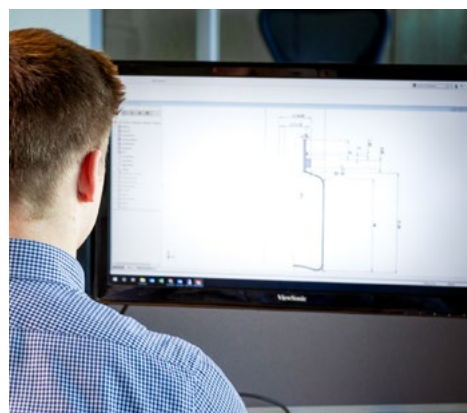
On-site impact

In our facilities, equipment and among our people, we take key steps to limit energy consumption and waste and to educate and encourage our team to make sustainable decisions.



Safety and Sustainability

Origin's environmental policy responds to the unique challenges faced in the production of healthcare and lifestyle packaging.



We refuse to compromise on our primary goal of ensuring product safety and compliance through innovative and secure packaging, or our sustainability efforts. Every decision is made with both principles at the forefront.

The unique challenges facing the healthcare industry, and many others, mean it is not possible to simply put sustainability above all else. Patient safety and medicine integrity pose challenges when it comes to storing, delivering and dispensing medicines.

But this does not mean Origin treats environmental considerations as an afterthought.

We are committed to making every reasonable effort to combat key challenges in sourcing and manufacturing materials that are fit for purpose. This means balancing patient safety and contamination and degradation risks with our determination to use the most eco-friendly materials possible.

First and foremost, our products and services must meet our mission of supporting patients to receive medicines as intended and on time. Materials and product design are non-negotiable and must be focused on the secure storage and intuitive dispensing of products. Our goals also include [child-resistance](#) and senior-friendly objectives.

Sustainability efforts must be integrated with this goal – they cannot take away from these primary efforts but are also not ignored or considered lightly.

The four key areas of consideration for each material Origin uses are:

- Initial manufacture
- Safe and accessible use
- Ease of recycling
- Possible uses of recycled materials

This also means balancing the availability of recycled material in our design and production processes to avoid increasing the demand for sustainable materials and inadvertently increasing production.

Our efforts also include reducing reliance on single-use sachets and other disposable packaging and materials that are not sustainably sourced or fully recyclable.

Origin's Environmental Position

Our goal is to minimise the impact of company activities and those of our customers on the environment, so far as is reasonably practicable.

Aims



Limit the environmental impact of the products we design and produce.



Carefully balance our environmental aims with consumer safety and quality.



Comply with all relevant environmental legislation as well as other environmental requirements the company is subscribed to.



Lead by example and develop best practice in the industries we serve.



Reduce the energy, water and material wastage we use and create across our sites.



Address poor sustainability performance within the packaging supply chain.



Support a more localised manufacturing model.



Continuously monitor performance in meeting our sustainability aims and improve.



Embed sustainability into our company culture.

Actions



Commitment to the principle of 'Sustainability by Design' (SbD) across the whole product lifecycle.



Consider how sustainable choices may impact the quality, safety and performance of our products and make carefully considered decisions on a project-by-project basis.



Ensure all Origin practices are pursuant to ISO 14001.



Work collaboratively with external stakeholders to promote improved environmental performance across the industries we serve.



Enact effective waste management according to circular economy principles.



Follow our Supply Chain Management 3.0 model to create a supply chain that's transparent, efficient and more sustainable.



Grow new tooling and manufacturing cells in strategic locations across the UK and Europe to support our onshoring goals.



Prioritise sourcing materials and services locally to reduce the length of our supply pipelines and consolidate incoming and outgoing shipments where possible.



Consistently engage our workforce via different channels to champion sustainability and our environmental goals.

Material selection

Sustainable packaging refers to the design and production of products that do not upset the environment.

It starts with the use of sustainable materials to create eco-friendly packaging. Materials are selected based on how much of an impact they have on the environment and how easily they can be reused or recycled into new products with as little waste as possible.

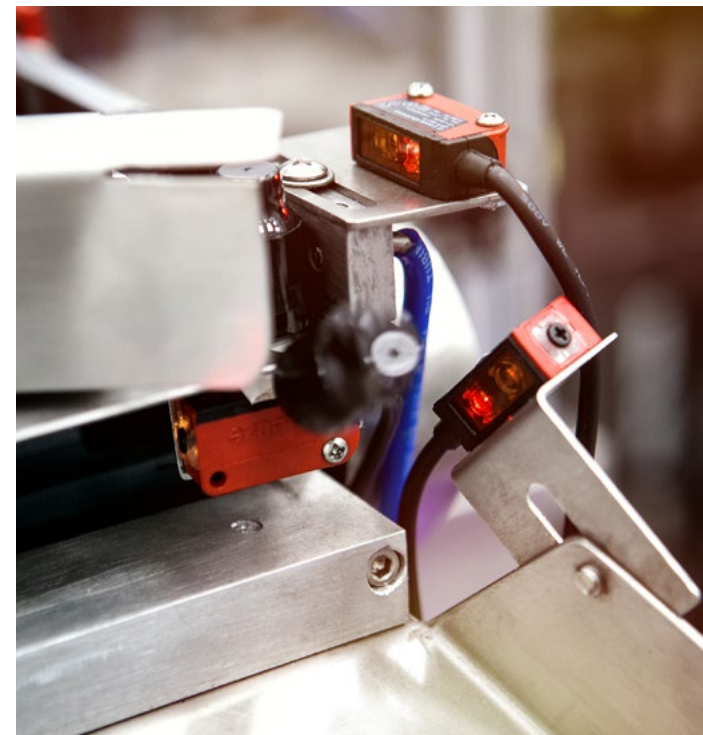
But material selection is a complex jigsaw of fulfilling often strict criteria, particularly within the pharmaceutical and healthcare markets, as well as environmental responsibilities. It is not always possible to balance these objectives equally.

Origin has been working hard to develop sustainable packaging systems and we always carefully consider how this commitment can be upheld on a project-by-project basis.

We choose to partner with suppliers that responsibly purchase raw materials from sustainable sources, particularly for paper-based products. We also design recyclability into all our packaging, whilst encouraging our customers and end users to recycle and reuse.

Our packaging is manufactured using a range of materials, and the spectrum of options is broadening all the time due to advances in research and development. The most used materials in primary packaging, particularly for pharmaceutical products, are glass and plastics, while secondary packaging commonly uses paper and cardboard.

Over the next two pages, we explore the unique benefits and drawbacks of [glass](#) and [plastic](#) as packaging materials.



Material selection

Glass

Origin glass jars, bottles and vials are produced using complex production and inspection processes to ensure the products we release to the market are safe and fit for the intended purpose. Our processes include blowing and pressing glass as well as tubular glass conversion. Despite the inherent fragile characteristic of glass as a substrate, a well-designed and optimised glass container is able to sustain quite considerable impact.

Origin offers a range of containers manufactured from a selection of different types of glass, available in many colours and sizes. All our glass has been tested to conform to international pharmacopoeias.

Our range of glass containers includes derma, sirop, Winchester and dropper bottles, plus a variety of jars and vials.

As a packaging material, glass has many sustainability and commercial benefits:

- It is widely and infinitely recyclable, with an average recycling rate of 76 percent in Europe.
- Exceptional yield value – every gram of glass recycled at furnace yields a gram of output.
- It is reusable and fit for multiple purposes and industries.
- Using recycled glass for the manufacture of new glass products results in larger CO₂ savings and reduces the energy needed in the production process.
- It is inert, free of toxic chemicals that could migrate to harm the packaged product or the environment.
- It can withstand high temperatures, is impermeable, and resistant to environmental contaminants.
- The colour of glass also offers unique benefits. For example, amber glass is known to reduce UV light penetration, blue and green glass offer brand enhancement, whilst clear glass is used to give visibility of the product contained.

Despite these positive features of glass, it is not a perfectly sustainable packaging material.

The production of glass is energy-intensive, requiring large volumes of varying resources in its production. It also has a high melting point, but lower than that of plastic, contributing to greenhouse gas emissions when it is manufactured and recycled.

The benefits of glass packaging for safety, ease of use and product quality must be weighed up against its sustainability drawbacks on a project-by-project basis.



Plastic

Plastic is one of the most versatile and durable substances in the world, producing packaging of all shapes and sizes.

Manufacturing plastic is more cost-effective than that of other materials and it uses fewer resources when compared to alternative materials, such as glass.

The strength and durability of plastics make reusability an option and most common plastic packaging solutions are also recyclable. These include:

- [Polyethylene Terephthalate \(PETE or PET\)](#)
- [High-Density Polyethylene \(HDPE\)](#)
- [Low-Density Polyethylene \(LDPE\)](#)
- Polypropylene (PP)

At Origin, we are also working hard to develop innovative biodegradable and compostable polymer formulations that will reduce the environmental impact of plastic packaging.

While these materials have existed for some time, there are very few that offer long-term stability and even fewer that comply with the strict credentials for pharma and healthcare use.

Origin work with a wide selection of subject matter experts and universities to research emerging technologies that hold real potential for these markets.

An example is our work with [Solinatra](#), working in partnership to convert agricultural waste from crops into stable polymer materials that are 100% plant based and biodegradable to be used in our packaging.



Post-consumer recycled material

We are also committed to using fully or partially recycled materials in our packaging systems.

We ensure we “design in” public recycled materials at a percentage equivalent of current availability market and capability. This is to avoid generating demand for recycled plastic that means more virgin plastic is created to fill shortfalls.

Our strategy tracks the annual percentage recycling rate and availability of post-consumer recycled materials (PCR) and matches this in our recommended recycled content composition.

For example, we offer glass bottles that are manufactured with 30% recycled glass, as well as plastic containers that are made with 30% or 100% recycled materials.

Product design, development & production

Origin is committed to the principle of 'Sustainability by Design' (SbD).

This framework aims to minimise the environmental impact of pharmaceutical and lifestyle products across their entire lifecycle - from design to disposal.

However, it is not as simple as switching materials. Quality and safety remain primary considerations, alongside sustainability.

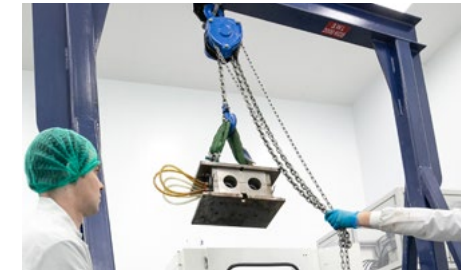
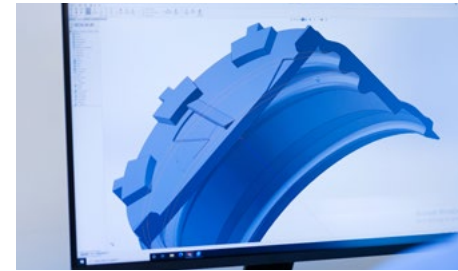
It is critical packaging and delivery systems protect products against external factors like humidity, temperature, light, oxygen, and other contaminants to preserve their integrity and function.

Child resistance and senior-friendly functionality are also important design features within certain industries, as too are technologies aiding safe dosage delivery and adherence, and anti-counterfeit strategies.

Regulatory requirements for packaging varies region by region and Origin will capture details of the intended markets and geographical locations when onboarding new product designs. Testing of packaging to the relevant Standards is conducted by authorised laboratories, and user experience feedback is crucial to the final product design.

At Origin, we carefully consider each of these primary considerations on a case-by-case basis for customers alongside building sustainability into the product from the outset.

Here are some examples of how SbD principles are being applied across our packaging design, development and production processes:



Cyclical design

We are proud to follow a cyclical design process, made up of rigid stages that allows our packaging technologists to consider sustainability throughout the design and development process for customers.

The cycle starts with planning and investigation, moving on to ideation and design concepts, and finishes with implementation, systematic testing, and thorough evaluation.

This approach ensures we deliver top quality products to customers with reduced environmental impact, while considering the unique challenges and solutions available for every project.

Weight and material reduction

We prioritise minimising material wastage and product weight to reduce the carbon footprints of our products.

We utilise 3D visualisation and printing technologies to test innovative sizes, shapes and functionalities within a controlled environment and providing an accurate assessment of model performance.

We consider the best ways to reduce material use and may recommend printing labelling directly onto secondary packaging or implementing quick response (QR) codes onto bottles, containers and blister packaging to allow patients to access digital versions of product dosage and administering information.

Research and innovation

Origin has brought together an expert team within the Research & Development department who drive precision and accuracy to develop and manufacture moulds that provide years of reliable operation.

Our design team have cross-industry experience and a reputation for bringing techniques from parallel markets into our pharmaceutical and healthcare focus.

Efficiency in production

In all our facilities, we ensure scheduled equipment preventative maintenance is carried out regularly. These check-ups and maintenance tasks help us to avoid unexpected machinery breakdowns and prolongs the lifespans of our equipment.

Our production and tooling experts receive continuous training to ensure high levels of efficiency and quality across our output. We also use energy efficient machinery further aided up effective production scheduling for maximum efficiency.



Our supply chain

At every point, there are opportunities to reduce environmental impact.

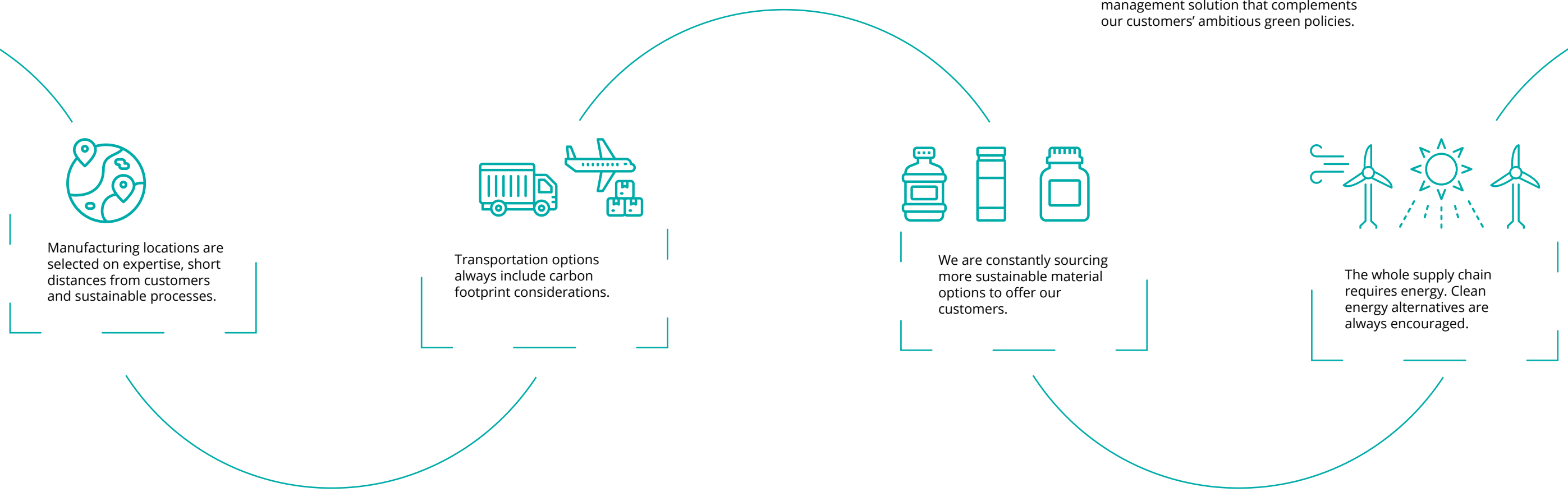
Supply chains are the series of events, actions and organisations that facilitate the distribution of products from development to the end user.

According to McKinsey, between 80 to 90 percent of greenhouse-gas emissions from businesses are "Scope 3," meaning they occur indirectly across the value chain.

One of the biggest challenges a business faces is having visibility and ownership over sustainability within its supply chain, particularly for pharmaceuticals which has one of the most complex logistical chains around the world.

Businesses can work hard to make and keep their own sustainability pledges, but in truth, they can only be as green as their suppliers and partners.

Origin's core mission is to correct the poor methods and practices within the primary packaging supply chain. We help clients across the globe remain agile and protected against disruption, all the while, prioritising sustainable practices at every stage.



We are also committed to a localised manufacturing model - or onshoring.

Our strategy involves supporting the growth of new tooling and manufacturing cells in strategic locations across the UK and Europe. We also prioritise sourcing materials and services locally to reduce the length of our supply pipelines, and ensure we consolidate incoming shipments and outgoing shipments where possible.

This reduces our and our customers' carbon footprints by reducing the miles the final product travels to reach the end user. This approach also optimises the amount of time a product needs to be maintained within a storage environment or shipped amongst the different transportation solutions.

Origin has also invested heavily into state-of-the-art SAP B1 IT systems and management software to drive accuracy and efficiencies, minimising the environmental impact of our supply chain.

The team that delivers our Supply Chain Management 3.0 service is composed of experienced analysts who understand market behaviour, season production timings, and how to bypass volatility that can cause costly delays.

With 60 years of supply chain knowledge and the creation of new lean techniques, our analysts continuously study and interpret buying trends to facilitate optimum buying power.

Simultaneously, we remain committed to supporting ethical sourcing and the latest environmental strategies, ensuring that Origin provides a supply chain management solution that complements our customers' ambitious green policies.



Supply Chain Management 3.0

Our approach to transporting pharmaceutical and healthcare products from A to B is called [Supply Chain Management 3.0](#).

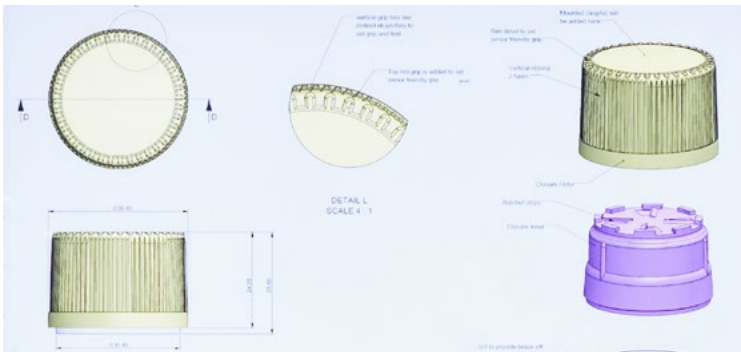
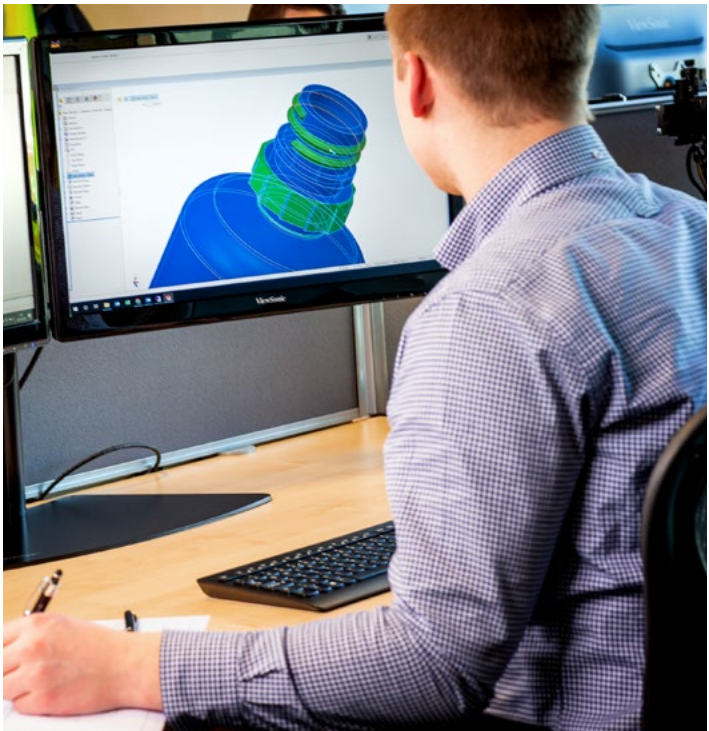
It is the product of time, research, capital and attention to detail in the systems and facilities that create a supply chain model that's transparent, efficient and more sustainable.

Onsite consumption and waste management

Origin is committed to limiting the energy, water and material wastage we use and create across our two sites – our head office and distribution centre.

To deliver on our commitment, we have established the following policies and practices:

- ✓ Installing solar panels on the roof of our HQ office building, reducing our reliance on the National Grid and non-renewable sources of electricity.
- ✓ Investing in a rainwater harvesting system to supply Origin's HQ lavatories with flushing water, helping to limit water wastage.
- ✓ Fitting smart meters to monitor and manage more responsible electricity usage.
- ✓ Placing general and recycling bins (paper, glass, and plastic) throughout our buildings, with separate food waste bins in all canteens. Special cardboard balers are installed in our production and warehouse areas.
- ✓ Adding motion sensors on-site to limit electricity wastage from lights when they are not needed.
- ✓ Using DEFRA and Environmental Agency approved waste management partners.
- ✓ Ensuring all lightbulbs across our sites are energy-efficient LED.



Internal engagement

To bolster the “can do” belief and attitude internally, businesses must invest in educating employees about sustainability as well as to create systems and processes that make it easier for employees to integrate sustainability into everyday decision making.



Embedding sustainability into our company culture is a key pillar of our strategy. It’s vital we link employee values and support for sustainability with their daily work and the company’s operations to drive positive change.

Internal sustainability practices like energy conservation and waste reduction can also positively impact employee retention, productivity, and overall engagement.

At Origin, we constantly engage our workforce via different channels to champion sustainability and support our environmental goals.



Our internal sustainability initiatives and practices consist of the following:

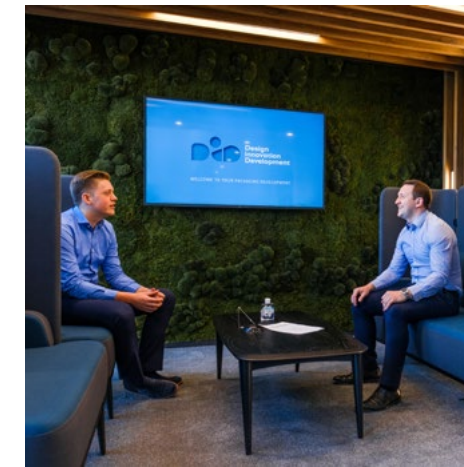
-  Providing employees with electric or hybrid company vehicles for commuting and business travel.
-  Encouraging staff to walk or cycle to work whenever possible or seek public transport methods to travel for external meetings to limit their carbon footprint.
-  Ensuring management leads from the top down in their commitment and promotion of Origin’s environmental policy and goals, setting a good example for the rest of the workforce to follow.
-  Providing employees with appropriate resources and training to help them engage with environmental policies and establish better ways of working.
-  Promoting energy-efficient practices and waste management in the office and throughout the business.
-  Embedding a culture of continuous improvement, through regular assessments and adaptations to limit our environmental impact. We regularly engage with the workforce by inviting employee feedback on ways we can improve further.

External engagement







Properly understood, external engagement means the efforts a company makes to manage its relationship with the external world.

When it comes to driving sustainable change within an industry and society more widely, organisations must deeply integrate external engagement into their strategy and operations.






At Origin, we place great importance on working closely with external stakeholders to drive forward our shared sustainability mission.



Our external sustainability initiatives and practices include the following:

-  Promoting end-to-end customer involvement to ‘design in’ sustainability at each critical product stage.
-  Advising customers on sustainable packaging solutions made from fully or partially recycled materials on a project-by-project basis.
-  Consolidating customer deliveries through effective production scheduling to reduce our shared carbon footprint as much as possible.
-  Investing and utilising returnable and reusable product packaging and, where not possible, using 100% recycled materials.
-  Only partnering with suppliers with shared environmental principles and purchasing raw materials from eco-friendly sources.
-  Continuous learning and knowledge-sharing within the industry. Origin employees regularly attend conferences and workshops, meet with key stakeholders, and contribute to leading industry publications.

Here are some examples of our thought leadership activity, with a focus on sustainability:

-  **SG Voice:** Refillable Packaging – How to provide a sustainable solution. [Read here.](#)
-  **Cosmetics Business:** How brands are blazing the green trail in the beauty subscription market. [Read here.](#)
-  **Packaging News:** Lifestyle Packaging introduces formula to enhance plastic pack biodegradability. [Read here.](#)
-  **European Pharmaceutical Review:** Sustainable pharma packaging: breaking down the barriers to adoption. [Read here.](#)
-  **PharmaPhorum:** How pharma can adapt to climate change. [Read here.](#)



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